

08503606	6004788	150	07/18/1995	ENZYME KITS AND LIBRARIES	SHORT , JAY M.
08568994	Not Issued	161	12/07/1995	ENZYME ACTIVITY SCREENING OF CLONES HAVING DNA FROM UNCULTIVATED	SHORT , JAY M.
08651568	5939250	150	05/22/1996	PRODUCTION OF ENZYMES HAVING DESIRED ACTIVITIES BY MUTAGENESIS	SHORT , JAY M.
08657409	5958672	150	06/03/1996	PROTEIN ACTIVITY SCREENING OF CLONES HAVING DNA FROM UNCULTIVATED	SHORT , JAY M.
08665565	5763239	150	06/18/1996	PRODUCTION AND USE OF NORMALIZED DNA LIBRARIES	SHORT , JAY M.
08677112	5965408	150	07/09/1996	METHOD OF DNA SHUFFLING WITH POLYNUCLEOTIDES PRODUCED BY	SHORT , JAY M.
08692002	6054267	150	08/02/1996	METHOD FOR SCREENING FOR ENZYME ACTIVITY	SHORT , JAY M.
08839468	Not Issued	41	04/14/1997	MORPHATIDES: NOVEL SHAPE AND STRUCTURE LIBRARIES	SHORT , JAY M.
08895611	Not Issued	41	07/16/1997	NUCLEOTIDE SEQUENCE OF THE AQUIFEX AEOLICUS GENOME, FRAGMENTS	SHORT , JAY M.
08918406	6057103	150	08/26/1997	SCREENING FOR NOVEL BIOACTIVITIES	SHORT , JAY M.
08918793	Not Issued	61	08/26/1997	COATED SURFACES FOR SELECTIVE ENRICHMENT OF MICROBIAL POPULATIONS	SHORT , JAY M.
08944795	6030779	150	10/06/1997	SCREENING FOR NOVEL BIOACTIVITIES	SHORT , JAY M.
08951494	Not Issued	169	10/16/1997	MORPHATIDES: NOVEL SHAPE AND STRUCTURE LIBRARIES	SHORT , JAY M.
08953634	Not Issued	41	10/17/1997	MORPHATIDES: NOVEL SHAPE AND STRUCTURE LIBRARIES	SHORT , JAY M.
08962504	Not Issued	93	10/31/1997	METHOD OF DNA SHUFFLING	SHORT , JAY M.

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Inventor Name Search Result

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Last Name = SHORT

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Serial#	Patent#	Status	Date Filed	Title	Inventor Name
<u>08983367</u>	<u>6168919</u>	150	09/30/1998	SCREENING METHODS FOR ENZYMES AND ENZYME KITS	SHORT , JAY M.
<u>08988224</u>	Not Issued	93	12/10/1997	GENE EXPRESSION LIBRARY PRODUCED FROM DNA FROM UNCULTIVATED MICROORGAN	SHORT , JAY M.
<u>09034724</u>	<u>6001574</u>	150	03/04/1998	PRODUCTION AND USE OF NORMALIZED DNA LIBRARIES	SHORT , JAY M.
<u>09057168</u>	Not Issued	161	03/30/1998	MUTAGENESIS TESTING USING TRANSGENIC NON-HUMAN	SHORT , JAY M.
<u>09061831</u>	Not Issued	61	04/16/1998	MORPHATIDES: NOVEL SHAPE AND STRUCTURE LIBRARIES	SHORT , JAY M.
<u>09089789</u>	Not Issued	41	06/03/1998	CONSTRUCTION AND USE OF CATALOGUED NUCLEIC ACID LIBRARIES THAT	SHORT , JAY M.
<u>09185373</u>	Not Issued	71	11/03/1998	DIRECTED EVOLUTION OF THERMOPHILIC ENZYMES	SHORT , JAY M.
<u>09206769</u>	Not Issued	161	02/11/1998	MUTAGENESIS TESTING USING TRANSGENIC NON-HUMAN ANIMALS CARRYING TEST	SHORT , JAY M.
<u>09214645</u>	Not Issued	61	09/27/1999	METHOD OF DNA SHUFFLING WITH POLYNUCLEOTIDES PRODUCED BY BLOCKING	SHORT , JAY M.
<u>09246178</u>	<u>6171820</u>	150	02/04/1999	SATURATION MUTAGENESIS IN DIRECTED EVOLUTION	SHORT , JAY M.
<u>09267118</u>	<u>6238884</u>	150	03/09/1999	END SELECTION IN DIRECTED EVOLUTION	SHORT , JAY M.
<u>09274711</u>	<u>6232103</u>	150	03/23/1999	METHODS USEFUL FOR NUCLEIC ACID SEQUENCING USING	SHORT , JAY M.

				MODIFIED NUCLEOTIDES	
<u>09276860</u>	Not Issued	41	03/26/1999	EXONUCLEASE-MEDIATED GENE ASSEMBLY IN DIRECTED EVOLUTION	SHORT , JAY M.
<u>09318528</u>	<u>6183740</u>	150	05/25/1999	RECOMBINANT BACTERIAL PHYTASES AND USES THEREOF	SHORT , JAY M.
<u>09332835</u>	Not Issued	41	06/14/1999	SYNTHETIC LIGATION REASSEMBLY IN DIRECTED EVOLUTION	SHORT , JAY M.
<u>09375605</u>	Not Issued	41	08/17/1999	PRODUCTION OF ENZYMES HAVING DESIRED ACTIVITIES BY MUTAGENESIS (AS	SHORT , JAY M.
<u>09376727</u>	Not Issued	61	08/17/1999	METHOD OF DNA SHUFFLING WITH POLYNUCLEOTIDES PRODUCED BY BLOCKING OR	SHORT , JAY M.
<u>09401861</u>	Not Issued	41	09/22/1999	COMBINATORIAL ENZYME DEVELOPMENT	SHORT , JAY M.
<u>09407525</u>	Not Issued	41	09/28/1999	PROTEIN ACTIVITY SCREENING OF CLONES HAVING DNA FROM UNCULTIVATED	SHORT , JAY M.
<u>09421629</u>	Not Issued	30	10/19/1999	PROTEIN ACTIVITY SCREENING OF CLONES HAVING DNA FROM UNCULTIVATED	SHORT , JAY M.
<u>09421970</u>	Not Issued	41	10/20/1999	SCREENING FOR NOVEL BIOACTIVITIES	SHORT , JAY M.
<u>09437905</u>	Not Issued	80	11/09/1999	PRODUCTION AND USE OF NORMALIZED DNA LIBRARIES	SHORT , JAY M.
<u>09444112</u>	Not Issued	41	11/22/1999	CAPILLARY ARRAY-BASED ENZYME SCREENING	SHORT , JAY M.
<u>09458180</u>	Not Issued	30	12/08/1999	NUCLEOTIDE SEQUENCE OF THE AQUIFEX AEOLICUS GENOME, FRAGMENTS	SHORT , JAY M.
<u>09467740</u>	Not Issued	30	12/20/1999	METHODS FOR IDENTIFYING A DESIRED ENZYMATIC ACTIVITY	SHORT , JAY M.

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Serial#	Patent#	Status	Date Filed	Title	Inventor Name
<u>09498557</u>	Not Issued	41	02/04/2000	NON-STOCHASTIC GENERATION OF GENETIC VACCINES AND ENZYMES	SHORT , JAY M.
<u>09529458</u>	Not Issued	41	04/13/2000	SCREENING FOR NOVEL COMPOUNDS WHICH REGULATE BIOLOGICAL INTERACTIONS	SHORT , JAY M.
<u>09535754</u>	Not Issued	41	03/27/2000	EXONUCLEASE-MEDIATED NUCLEIC ACID REASSEMBLY IN DIRECTED EVOLUTION	SHORT , JAY M.
<u>09557276</u>	Not Issued	71	04/24/2000	METHOD FOR SCREENING FOR ENZYME ACTIVITY	SHORT , JAY M.
<u>09561597</u>	Not Issued	41	04/27/2000	SCREENING FOR NOVEL BIOACTIVITIES	SHORT , JAY M.
<u>09570220</u>	Not Issued	41	05/12/2000	CHLORAMPHENICOL BIOSYNTHETIC PATHWAY AND GENE CLUSTER CHARACTERIZATION	SHORT , JAY M.
<u>09571499</u>	Not Issued	41	05/15/2000	SEQUENCE BASED SCREENING	SHORT , JAY M.
<u>09580515</u>	Not Issued	30	05/25/2000	RECOMBINANT BACTERIAL PHYTASES AND USES THEREOF	SHORT , JAY M.
<u>09580937</u>	Not Issued	30	05/25/2000	DIETARY AIDS AND METHODS OF USE THEREOF	SHORT , JAY M.
<u>09594459</u>	Not Issued	30	06/14/2000	SYNTHETIC LIGATION REASSEMBLY IN DIRECTED EVOLUTION	SHORT , JAY M.
<u>09636778</u>	Not Issued	41	08/11/2000	HIGH THROUGHPUT SCREENING FOR NOVEL ENZYMES	SHORT , JAY M.

09663620	Not Issued	30	09/15/2000	COMBINATORIAL SCREENING OF MIXED POPULATIONS OF ORGANISMS	SHORT , JAY M.
09677584	Not Issued	19	09/30/2000	WHOLE CELL ENGINEERING BY MUTAGENIZING A SUBSTANTIAL PORTION OF A STAR	SHORT , JAY M.
09685432	Not Issued	30	10/10/2000	HIGH THROUGHPUT SCREENING FOR SEQUENCES OF INTEREST	SHORT , JAY M.
09687219	Not Issued	19	10/12/2000	CAPILLARY ARRAY-BASED SAMPLE SCREENING	SHORT , JAY M.
09713176	Not Issued	30	11/14/2000	PROTEIN ACTIVITY SCREENING OF CLONES HAVING DNA FROM UNCULTIVATED MICR	SHORT , JAY M.
09714780	Not Issued	19	11/15/2000	ALTERED THERMOSTABILITY OF ENZYMES	SHORT , JAY M.
09738871	Not Issued	19	12/15/2000	HIGH THROUGHPUT SCREENING FOR A BIOACTIVITY OR BIOMOLECULE	SHORT , JAY M.
09753752	Not Issued	19	01/02/2001	SCREENING METHODS FOR ENZYMES AND ENZYME KITS	SHORT , JAY M.
09756459	Not Issued	19	01/08/2001	SATURATION MUTAGENESIS IN DIRECTED EVOLUTION	SHORT , JAY M.
09761559	Not Issued	19	01/16/2001	HIGH THROUGHPUT SCREENING FOR NOVEL ENZYMES	SHORT , JAY M.
09777566	Not Issued	19	02/05/2001	RECOMBINANT BACTERIAL PHYTASES AND USES THEREOF	SHORT , JAY M.
60008316	Not Issued	159	12/07/1995	COMBINATORIAL ENZYME DEVELOPMENT	SHORT , JAY M.
60008317	Not Issued	159	12/07/1995	METHOD FOR SCREENING FOR ENZYME ACTIVITY	SHORT , JAY M.
60028527	Not Issued	159	10/17/1996	MORPHOTIDES-NOVEL SHAPE AND STRUCTURE LIBRARIES	SHORT , JAY M.

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Inventor	<input type="button" value="Search"/>	

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Terms	Documents
expression library and gene cluster and normalized library	4

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Search Results - Record(s) 1 through 4 of 4 returned.☐ 1. Document ID: US 6174673 B1

L1: Entry 1 of 4

File: USPT

Jan 16, 2001

US-PAT-NO: 6174673

DOCUMENT-IDENTIFIER: US 6174673 B1

TITLE: High throughput screening for novel enzymes

DATE-ISSUED: January 16, 2001

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Short; Jay M.	Encinitas	CA	N/A	N/A
Keller; Martin	San Diego	CA	N/A	N/A

US-CL-CURRENT: 435/6, 435/320.1, 435/440, 435/471, 435/476, 435/69.1

ABSTRACT:

Disclosed is a process for identifying clones having a specified activity of interest, which process comprises (i) generating one or more expression libraries derived from nuclei acid directly isolated from the environment; and (ii) screening said libraries utilizing a fluorescence activated cell sorter to identify said clones. More particularly, this is a process for identifying clones having a specified activity of interest by (i) generating one or more expression libraries derived from nucleic acid directly or indirectly isolated from the environment; (ii) exposing said libraries to a particular substrate or substrates of interest; and (iii) screening said exposed libraries utilizing a fluorescence activated cell sorter to identify clones which react with the substrate or substrates. Also provided is a process for identifying clones having a specified activity of interest by (i) generating one or more expression libraries derived from nucleic acid directly or indirectly isolated from the environment; and (ii) screening said exposed libraries utilizing an assay requiring co-encapsulation, a binding event or the covalent modification of a target, and a fluorescence activated cell sorter to identify positive clones.

23 Claims, 18 Drawing figures Exemplary Claim Number: 1

Number of Drawing Sheets: 16

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWIC	Draw Desc	Image
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☐ 2. Document ID: US 6057103 A

L1: Entry 2 of 4

File: USPT

May 2, 2000

US-PAT-NO: 6057103

DOCUMENT-IDENTIFIER: US 6057103 A

TITLE: Screening for novel bioactivities

DATE-ISSUED: May 2, 2000

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Short; Jay M.	Encinitas	CA	N/A	N/A

US-CL-CURRENT: 435/6; 435/91.1, 435/91.2, 436/501, 536/23.1, 536/24.3, 536/24.31, 536/24.32, 536/24.33, 536/25.4

ABSTRACT:

Disclosed is a process for identifying clones having a specified activity of interest, which process comprises (i) generating one or more expression libraries derived from nucleic acid directly isolated from the environment; and (ii) screening said libraries utilizing an assay system. More particularly, this is a process for identifying clones having a specified activity of interest by (i) generating one or more expression libraries derived from nucleic acid directly or indirectly isolated from the environment; (ii) exposing said libraries to a particular substrate or substrates of interest; and (iii) screening said exposed libraries utilizing a fluorescence activated cell sorter to identify clones which react with the substrate or substrates. Also provided is a process for identifying clones having a specified activity of interest by (i) generating one or more expression libraries derived from nucleic acid directly or indirectly isolated from the environment; and (ii) screening said exposed libraries utilizing an assay requiring a binding event or the covalent modification of a target, and a fluorescence activated cell sorter to identify positive clones.

33 Claims, 10 Drawing figures Exemplary Claim Number: 1

Number of Drawing Sheets: 8

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KMC	Draw Desc	Image
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☐ 3. Document ID: US 6001574 A

L1: Entry 3 of 4

File: USPT

Dec 14, 1999

US-PAT-NO: 6001574
DOCUMENT-IDENTIFIER: US 6001574 A

TITLE: Production and use of normalized DNA libraries

DATE-ISSUED: December 14, 1999

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Short; Jay M.	Encinitas	CA	N/A	N/A
Mathur; Eric J.	Carlsbad	CA	N/A	N/A

US-CL-CURRENT: 435/6; 435/440, 435/91.2, 536/25.4, 536/25.42

ABSTRACT:

Disclosed is a process for forming a normalized genomic DNA library from an environmental sample by (a) isolating a genomic DNA population from the environmental sample; (b) at least one of (i) amplifying the copy number of the DNA population so isolated and (ii) recovering a fraction of the isolated genomic DNA having a desired characteristic; and (c) normalizing the representation of various DNAs within the genomic DNA population so as to form a normalized library of genomic DNA from the environmental sample. Also disclosed is a normalized genomic DNA library formed from an environmental sample by the process.

14 Claims, 1 Drawing figures Exemplary Claim Number: 1
Number of Drawing Sheets: 1

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	K/M/C	Draw Desc	Image
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☐ 4. Document ID: US 5763239 A

L1: Entry 4 of 4

File: USPT

Jun 9, 1998

US-PAT-NO: 5763239
DOCUMENT-IDENTIFIER: US 5763239 A

TITLE: Production and use of normalized DNA libraries

DATE-ISSUED: June 9, 1998

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Short; Jay M.	Encinitas	CA	N/A	N/A
Mathur; Eric J.	Carlsbad	CA	N/A	N/A

US-CL-CURRENT: 435/6; 435/489, 435/91.2, 536/25.4

ABSTRACT:

Disclosed is a process for forming a normalized genomic DNA library from an environmental sample by (a) isolating a genomic DNA population from the environmental sample; (b) analyzing the complexity of the genomic DNA population so isolated; (c) at least one of (i) amplifying the copy number of the DNA population so isolated and (ii) recovering a fraction of the isolated genomic DNA having a desired characteristic; and (d) normalizing the representation of various DNAs within the genomic DNA population so as to form a normalized library of genomic DNA from the environmental sample. Also disclosed is a normalized genomic DNA library formed from an environmental sample by the process.

14 Claims, 1 Drawing figures Exemplary Claim Number: 1
Number of Drawing Sheets: 1

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWC	Draw Desc	Image
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Terms	Documents
expression library and gene cluster and normalized library	4

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